HEMAL KAMLESHBHAI SHAH

Bharuch, Gujarat, India - 392001
+91-8320278775 | hemal.shah2004@gmail.com
https://github.com/hemal9102/

BRIEF SUMMARY

Final-year B.Tech Computer Science student with hands-on experience in Python, JavaScript, full-stack development, and automation. Developed AI-driven solutions including a Smart Demand Forecasting model, RAG-based chatbot, and OCR-powered invoice automation. Skilled in building scalable backend services, APIs, and responsive web interfaces. Seeking a Generative AI software engineering internship to apply AI research insights into prototype development and production-ready applications.

EDUCATION

GSFC University **2022 - 2026**
B.Tech., Computer Science & Engineering
- **GPA:** 7.15/10

Amity high school, bharuch **2022**
12th
- **Achievements:** 12th Percentage: 60.40 / 100

GSEB, Bharuch **2020**
10th
- **Achievements:** 10th Percentage: 78.50 / 100

INTERNSHIPS

techicom **Jun 2025 - Jul 2025**
Artificial Intelligence
During my internship at Techicom Company, I worked on a project titled "Smart Demand Forecasting for Perishable Retail", aimed at reducing waste and increasing profits for local fruit and vegetable vendors. The objective was to build a daily sales prediction model that helps vendors accurately forecast demand, purchase optimal stock quantities, minimize wastage, and avoid lost sales due to understocking. I was involved in the complete data science pipeline, which included dataset creation, exploratory data analysis (EDA), data preprocessing, and machine learning model development. Additionally, I contributed to building a Power BI dashboard to visually present key insights, sales trends, and demand predictions. This project not only enhanced my technical skills in data handling and predictive modeling but also deepened my understanding of applying Al for real-world, sustainable business solutions.

SentimentAl **Dec 2024 - Jun 2025**
Al developer
I have designed and implemented multiple real-world automation solutions to streamline repetitive tasks and improve efficiency. One of my key projects includes Invoice Automation, which extracts and processes data from invoices (such as item names, prices, and totals) using PDF parsers and OCR tools. This system can read scanned documents or digital PDFs, extract structured data, and feed it into downstream workflows for analytics or storage. I also built a Telegram Bot Automation, integrated with n8n, which allows users to upload files (like PDFs or images), ask questions, and receive intelligent responses-enabling document Q&A and file analysis via a conversational interface. In another project, I developed a Google Maps Scraper, which automatically gathers business information such as names, addresses, phone numbers, and ratings for selected categories and locations, enabling lead generation and local market analysis. Complementing this, I implemented a LinkedIn Scraper that programmatically fetches profile details, job data, and professional connections, which is useful for recruitment research or competitor analysis. Additionally, I created a PDF Text Scanner, an OCR-based tool that detects and extracts text from scanned documents and images. These projects involved automation platforms like n8n, scripting in Python and JavaScript, OCR.space API for image-to-text, and scraping tools like BeautifulSoup and Puppeteer. Collectively, these automations demonstrate my strong grasp of workflow orchestration, API integrations, web scraping, NLP, and real-time data handling all of which solve practical problems and add tangible value in domains such as admin operations, HR, market research, and intelligent data extraction.

Prodigy Infotech **Jan 2024 - Dec 2024**
Programmer
During my internship at Prodigy Infotech as a Software Developer, I worked on multiple real-world projects that enhanced my practical skills in programming and application development. I built a Contact Management System using Python for storing and managing user details, developed a Number Guessing Game to strengthen logic building, and created a Sudoku Solver using JavaScript with a web interface. Additionally, I implemented a Temperature Converter using Python's Tkinter library and developed a Web Scraper to extract product data (name, price, rating) from an e-commerce site and store it in CSV format. This internship gave me hands-on experience in problem-solving, software design, and real-world coding practices.

SP graphics **Dec 2023 - Jan 2024**
SP graphics
During my internship, I learned the fundamentals of WordPress, including theme customization, plugin integration, page builders (like Elementor), and basic SEO practices. I applied this knowledge by independently creating a beginner-level website, handling everything

from layout design to content management. The internship strengthened my understanding of CMS platforms and helped me develop a hands-on approach to building user-friendly, responsive websites with minimal code.

PROJECTS

Oceandata chatAl **Aug 2025 - Sep 2025**

- I have scraped all the ocean data, it was SIH 2025 statement project after scraping we have build the data embedding and vector search to use in RAG model integrated with LLM model intelligence.

Chess Al **Apr 2025 - May 2025**

- A chess game developed using the Unity game engine with Al that uses reinforcement learning. It's a fully functional complete game. It was developed as a minor project when I was in semester VI at GSFC University.

Pong game **Apr 2025**

- I developed a classic Pong game using Unity and C#, recreating the retro arcade experience with modern features. The game includes two paddles (player vs. player), ball physics, score tracking, and collision handling. I implemented smooth paddle movement using keyboard input, dynamic ball reflection based on contact angles, and game-over conditions based on score limits.

Web scraper **Dec 2024 - Jan 2025**

- I developed a Python-based web scraper to extract structured product information from an e-commerce website. The scraper was designed to collect data such as product names, prices, and customer ratings by parsing HTML content using libraries like BeautifulSoup and requests. The extracted data was cleaned and stored in a CSV file for further analysis. This project helped me understand the fundamentals of web scraping, data extraction, and automation, while also reinforcing skills in handling HTTP requests and working with real-time data sources.

Telegram Al bot

- I created a Telegram Al bot using n8n that automatically replies to user messages by connecting with an AI API. The workflow handles message input(PDF, Image), we can also extract text from PDF and Image then sends it to the Al, and returns smart responses all automated without writing backend code. This project improved my skills in API integration, automation, and bot development.

KEY EXPERTISE

- **Programming Languages**: Python, JavaScript, Java, C#
- **Web and Backend Development**: Web Development, Backend, Web Scraping, WordPress, Tkinter
- **Tools and Automation**: n8n, Power BI, Git/GitHub, Unity, Automation
- **AI and Machine Learning**: Generative AI
- **Professional Skills**: Problem-Solving, Analytical Skills, Logic, Software Development Lifecycle

EXTRACURRICULAR

ICON-AI-SMT

Volunteer

- Volunteer, ICON-AI-SMT, 1 International Conference by GSFC University